

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

ATTORNEY'S DOCKET NO.

10089/10

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled COMPOSITE SEMIPERMEABLE MEMBRANE, the specification of which

 X is attached hereto.

 was filed on as
United States Application Number or PCT International
Application Number
and was amended on
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

PRIOR FOREIGN APPLICATION(S)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Express Mail #2039790 32745

| COUNTRY | APPLICATION NUMBER | DATE OF FILING (day, month, year) | DATE OF ISSUE (day, month, year) | PRIORITY CLAIMED UNDER 35 U.S.C. § 119 |
|---------|-----------------------|--------------------------------------|-------------------------------------|--|
| Japan | 148552/1999 | 27/05/1999 | | Yes |

PRIOR UNITED STATES APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

| APPLICATION NUMBER | FILING DATE (day, month, year) |
|--------------------|-----------------------------------|
| | |

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

| APPLICATION NUMBER | FILING DATE (day, month, year) | STATUS (i.e. Patented, Pending, Abandoned) |
|--------------------|-----------------------------------|---|
| | | |

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys:

Edward W. Greason (Reg. No. 18,918)
 _____ (Reg. No. _____)

SEND CORRESPONDENCE, AND DIRECT TELEPHONE CALLS TO:

**EDWARD W. GREASON
KENYON & KENYON
One Broadway
New York, New York 10004
(212) 425-7200 (phone)
(212) 425-5288 (facsimile)**

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| | | | |
|-----------------------------|--|--|--|
| FULL NAME OF INVENTOR | FAMILY NAME YAMADA | FIRST GIVEN NAME Hideki | SECOND GIVEN NAME |
| RESIDENCE & CITIZENSHIP | CITY Otsu-shi | STATE OR FOREIGN COUNTRY Shiga-ken, Japan | COUNTRY OF CITIZENSHIP Japan |
| POST OFFICE ADDRESS | POST OFFICE ADDRESS c/o Research Institute of TOMO HOSEKI KAKUSHIKI KAISHA, 1-1, Katata 2-chome | CITY Otsu-shi | STATE & ZIP CODE/COUNTRY Shiga-ken, Japan |
| Signature Hideki Yamada. | | Date May 12, 2000 | |

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|--|---|--|--|
| FULL NAME OF INVENTOR | FAMILY NAME TSUCHIYA | FIRST GIVEN NAME Toshiyuki | SECOND GIVEN NAME |
| RESIDENCE & CITIZENSHIP | CITY Otsu-shi | STATE OR FOREIGN COUNTRY Shiga-ken, Japan | COUNTRY OF CITIZENSHIP Japan |
| POST OFFICE ADDRESS | POST OFFICE ADDRESS c/o Research Institute of TOMO HOSEKI KAKUSHIKI KAISHA, 1-1, Katata 2-chome, | CITY Otsu-shi | STATE & ZIP CODE/COUNTRY Shiga-ken, Japan |
| Signature <i>Toshiyuki Tsuchiya</i> | | Date May 12, 2000 | |
| FULL NAME OF INVENTOR | FAMILY NAME ARIJI | FIRST GIVEN NAME Akihiro | SECOND GIVEN NAME |
| RESIDENCE & CITIZENSHIP | CITY Otsu-shi | STATE OR FOREIGN COUNTRY Shiga-ken, Japan | COUNTRY OF CITIZENSHIP Japan |
| POST OFFICE ADDRESS | POST OFFICE ADDRESS c/o Research Institute of TOMO HOSEKI KAKUSHIKI KAISHA, 1-1, Katata 2-chome | CITY Otsu-shi | STATE & ZIP CODE/COUNTRY Shiga-ken, Japan |
| Signature <i>Akihiro Ariti</i> | | Date May 12, 2000 | |
| FULL NAME OF INVENTOR | FAMILY NAME KUMANO | FIRST GIVEN NAME Atsuo | SECOND GIVEN NAME |
| RESIDENCE & CITIZENSHIP | CITY Otsu-shi, | STATE OR FOREIGN COUNTRY Shiga-ken, Japan | COUNTRY OF CITIZENSHIP Japan |
| POST OFFICE ADDRESS | POST OFFICE ADDRESS c/o Research Institute of TOMO HOSEKI KAKUSHIKI KAISHA, 1-1, Katata 2-chome | CITY Otsu-shi | STATE & ZIP CODE/COUNTRY Shiga-ken, Japan |
| Signature <i>Atsuo Kumano</i> | | Date May 12, 2000 | |
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|-------------------------|---------------------|--------------------------|--------------------------|
| FULL NAME OF INVENTOR | FAMILY NAME | FIRST GIVEN NAME | SECOND GIVEN NAME |
| RESIDENCE & CITIZENSHIP | CITY | STATE OR FOREIGN COUNTRY | COUNTRY OF CITIZENSHIP |
| POST OFFICE ADDRESS | POST OFFICE ADDRESS | CITY | STATE & ZIP CODE/COUNTRY |
| Signature | | | Date |

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| POST OFFICE ADDRESS | POST OFFICE ADDRESS | CITY | STATE & ZIP CODE/COUNTRY |
| Signature | | | Date |

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| POST OFFICE ADDRESS | POST OFFICE ADDRESS | CITY | STATE & ZIP CODE/COUNTRY |
| Signature | | | Date |

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
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AUGUST 08, 2000

PTAS



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/26/2000

REEL/FRAME: 010851/0149
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
YAMADA, HIDEKI

DOC DATE: 05/12/2000

ASSIGNOR:
TSUCHIYA, TOSHIYUKI

DOC DATE: 05/12/2000

ASSIGNOR:
ARIJI, AKIHIRO

DOC DATE: 05/12/2000

ASSIGNOR:
KUMANO, ATSUO

DOC DATE: 05/12/2000

ASSIGNEE:
TOYO BOSEKI KABUSHIKI KAISHA
2-8, DOJIMA HAMA 2-CHOME, KITA-KU
OSAKA-SHI, OSAKA-FU, JAPAN

SERIAL NUMBER: 09580294
PATENT NUMBER:

FILING DATE: 05/26/2000
ISSUE DATE:

ASSIGNMENT

WHEREAS, we, 1) Hideki YAMADA, 2) Toshiyuki TSUCHIYA,
3) Akihiro ARIJI and 4) Atsuo KUMANO _____, citizens
of Japan, residing at 1)-4) c/o Research Institute of TOYO BOSEKI
KABUSHIKI KAISHA, 1-1, Katata 2-chome, Otsu-shi, Shiga-ken, Japan

_____ ,
respectively, have invented new and useful improvements in
COMPOSITE SEMIPERMEABLE MEMBRANE

for which we are about to make application for Letters Patent of
the United States, said application having been executed by us
on even date herewith; and

WHEREAS, TOYO BOSEKI KABUSHIKI KAISHA _____,
a Company of Japan, having its place of business at _____
2-8, Dojima Hama 2-chome, Kita-ku, Osaka-shi, Osaka-fu, Japan

(hereinafter referred to as the Assignee), is desirous of
acquiring the entire right, title and interest in and to the
application and the invention therein described and claimed and
any Letters Patent that may be issued upon the application or
for the improvements therein contained.

NOW, THEREFORE, for and in consideration of the
equivalent sum of One Dollar (\$1.00) to us in hand paid, the
receipt and sufficiency whereof is hereby acknowledged, we have
sold, assigned and transferred, and do hereby sell, assign and
transfer unto the Assignee, its successors and assigns, the
entire right, title and interest in and to the application and
the invention therein contained, including the right to apply
for any Letters Patent in the United States of America on the
invention, any Letters Patent that may issue thereon or
therefor, in the United States, and all reissues, extensions,
renewals, divisions and continuations thereof, to the full end
of the term or terms for which the Letters Patent may be issued,

the same to be held and enjoyed by the Assignee, its successors and assigns, the same as it would have been held and enjoyed by us if this Assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents to issue all such Letters Patent to the Assignee, its successors and assigns, in accordance with this instrument of Assignment.

We hereby represent and warrant that there are no rights and interests outstanding inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent therewith, and we bind ourselves, our heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to the Assignee, its successors and assigns, any further documents or instruments and do any and all further acts that may be deemed necessary by the Assignee, its successors and assigns, to vest in the Assignee, its successors and assigns, the title herein conveyed, or intended so to be, and to enable such title to be recorded in the United States.

And we further covenant and agree, in consideration of the premises that we, our executors and administrators, will at any time upon request communicate to the Assignee, its successors and assigns, any facts relating to the invention and improvements and the history thereof, known to us or our executors and administrators, and that we will testify as to the same in any interference or other litigation when requested so to do by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 12th day of May, 2000.

Hidēki Yamada
(Name of Inventor) Hidēki YAMADA

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 12th day of May, 2000.

Toshiyuki Tsuchiya
(Name of Inventor) Toshiyuki TSUCHIYA

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 12th day of May, 2000.

Akihiro ARLJI
(Name of Inventor) Akihiro ARLJI

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 12th day of May, 2000.

Atsuo Kumano
(Name of Inventor) Atsuo KUMANO

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this ____ day of _____, 2000.

(Name of Inventor)

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this ____ day of _____, 2000.

(Name of Inventor)

WITNESSED BY:

Name _____

Name _____